

IN THE CLAIMS

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1.-5 (Cancelled.)

6. (Currently amended) An thermal transfer interface of claim 1,  
comprising:

a thermal spreader forming a plurality of passageways;  
a spring element coupled with the spreader; and  
a plurality of thermally conductive pins for the passageways, each of the  
pins having a head and a shaft moving with the spring element, at  
least part of the shaft being internal to the passageway and forming  
a gap with an internal surface of the passageway, wherein the pin  
heads collectively and macroscopically conform to an object  
coupled thereto to transfer heat from the object to the spreader  
through the passageway gap formed between the spreader and each  
of the plurality of pins, each of the pin shafts being substantially  
rectangular, each of the passageways being substantially  
perpendicular to a planar surface of the spring element and being  
substantially rectangular to accommodate motion of the shafts  
therethrough.

7.-8. (Cancelled.)

9. (Currently Amended) An thermal transfer interface of claim 1,  
comprising:

a thermal spreader forming a plurality of passageways;  
a the spring element coupled with the spreader and comprising a thermally  
conductive sponge-like material; and  
a plurality of thermally conductive pins for the passageways, each of the  
pins having a head and a shaft moving with the spring element, at  
least part of the shaft being internal to the passageway and forming  
a gap with an internal surface of the passageway, wherein the pin  
heads collectively and macroscopically conform to an object

coupled thereto to transfer heat from the object to the spreader through the passageway gap formed between the spreader and each of the plurality of pins.

10. (Currently Amended) An thermal transfer interface of claim 1, comprising:

a thermal spreader forming a plurality of passageways;  
a spring element coupled with the spreader; and  
a plurality of thermally conductive pins for the passageways, each of the pins having a head and a shaft moving with the spring element, at least part of the shaft being internal to the passageway and forming a gap with an internal surface of the passageway, wherein the pin heads collectively and macroscopically conform to an object coupled thereto to transfer heat from the object to the spreader through the passageway gap formed between the spreader and each of the plurality of pins, wherein one or both of the pins and the spreader forming a heat sink.

11-18. (Cancelled.)

19. (Currently Amended) A method of claim 17 for transferring thermal energy from a body to a heat sink, comprising the steps of: biasing a plurality of pins against a surface of the object so that the plurality of pins contact with, and substantially conform to, a macroscopic surface of the object, the step of biasing comprising biasing a plurality of pin heads against the object, the step of biasing and further comprising utilizing a thermally conductive sponge material coupled between the spreader and the pin heads; and communicating thermal energy from the object through the pins to a thermal spreader forming a plurality of air gaps with the plurality of pins.

20. (Cancelled.)